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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711.021 08/18/2004		Wen-Yuan Guo	TOPP0027USA 5020	
27765	7590 07/11/2006		EXAMINER	
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION			WON, BUMSUK	
P.O. BOX 50 MERRIFIEL	6 D, VA 22116	ART UNIT	PAPER NUMBER	
			2879	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	ation No.	Applicant(s)			
Office Action Summary		10/711	,021	GUO ET AL.			
		Examir	ier	Art Unit			
		Bumsu	< Won	2879			
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply							
WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MANAGER, FROM THE MANAGER, FROM THE MANAGER (6) MONTHS from the mailing date of this communication for reply is specified above, the maximum state to reply within the set or extended period for reply eply received by the Office later than three months at an advantage of the patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF of 37 CFR 1.136(a). In no unication. tutory period will apply an will, by statute, cause the	THIS COMMUNICATIO event, however, may a reply be ti d will expire SIX (6) MONTHS from application to become ABANDON	N. mely filed in the mailing date of this communication. ED (35 U.S.C. § 133).			
Status							
2a)□	 Responsive to communication(s) filed on 18 August 2004. This action is FINAL. 2b) ☐ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 						
Dispositi	on of Claims						
5)⊠ 6)⊠ 7)□ 8)□ Applicati 9)⊠ 10)□	Claim(s) 1-21 is/are pending in the adda of the above claim(s) is/are Claim(s) 1-10 is/are allowed. Claim(s) 1-21 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are objected to. Claim(s) are subject to restrict on Papers The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object of the Order	e withdrawn from tion and/or election Examiner. a) accepted or tion to the drawing(s) the correction is req	n requirement. b) objected to by the s) be held in abeyance. Se uired if the drawing(s) is old	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Infor	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (Ponation Disclosure Statement(s) (PTO-1449 or revolve)		4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:				

Application/Control Number: 10/711,021 Page 2

Art Unit: 2879

DETAILED ACTION

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The following title is suggested: Organic light emitting diode display having red, blue, and green colors emitted using heating circuit structure.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 11-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 11 recites the limitation "the first conductive wire" and "the second conductive wire" in last wherein clause. There is insufficient antecedent basis for this limitation in the claim. For examining purpose, "a first conductive wire and a second conductive wire not connected to each other formed on the substrate" will be added before the wherein clause.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 21 is rejected under 35 U.S.C. 102(b) as being anticipated by Koyama (2002/0047581).

Regarding claim 21, Koyama discloses an OLED display (fig 2) comprising: a substrate (not shown); pixel areas (100) being defined on the substrate; OLEDs (106) corresponding to each of the pixel areas designated to emit a light beam of a predetermined color (it is an inherent feature of EL element to emit a color, paragraphs 26 and 189 discloses colored light is emitted from the EL elements); and a heating circuit (TFTs increase temperature when the display is in operation, 102, 103, 104, 105) for heating OLEDs. The color emitted when the EL elements are being heated due to temperature increase in the TFTs is different from the color emitted when the EL elements are not being heated (paras 26 and 189). Therefore the predetermined color when unheated is different from the color when heated with heating circuit.

Also, the Examiner notes that the claim limitation of the phrase "so as to enable ... a color different from the predetermined color" in the last three lines of the claim is drawn to a functional limitation which is incidental to the claimed apparatus. It is well established that a claimed apparatus cannot be distinguished over the prior art by a functional limitation.

Consequently, absent a showing of an unobvious difference between the claimed product and the prior art, the subject functional claim limitation is not afforded patentable weight (MPEP 2114).

Allowable Subject Matter

Claims 1-20 are allowed. The following is an examiner's statement of reasons for allowance:

Regarding independent claim 1, the prior art of record does not teach or suggest the invention of an organic light emitting diode display having a heating circuit structure having a

Art Unit: 2879

first and second conductive lines not connected each other being connected to a first and second heating wires respectively through contact holes in an isolation layer, and the first and second heating wires being electrically connected to a ground electrode, along with other claimed limitations. Claims 2-10 are allowed due to claim dependency.

Claim 11 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Regarding independent claim 11, the prior art of record does not teach or suggest the invention of an organic light emitting diode display having first and second heating wires covering portions of pixel areas, TFT being disposed on each of the heating wires, isolation layer covering the TFT and heating wires, the first heating wires being electrically connected to the first conductive wire and the corresponding OLED generate green light, and the second heating wires being electrically connected to the second conductive wire and the corresponding OLED generate red light, along with other claimed limitations.

Claims 12-20 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2879

Contact information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Burnsuk Won whose telephone number is 571-272-2713. The examiner can normally be reached on Monday through Friday, 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bumsuk Won Patent Examiner

ĴOSEPH WILLIAMS PRIMARY EXAMINER